OCZ ZD-XL SQL Accelerator

Integrated Flash Hardware & Software Solution for SQL Server

Unleash SQL Server Performance

The ZD-XL SQL Accelerator drives TCO savings with optimized performance and minimized system DRAM requirements, enabling the use of cost-effective commodity storage for capacity.

- Plug-n-Play deployment
- Optimized OLTP and OLAP flash caching
- Flash volumes for tempDB and logs
- Cache warm-up analysis and scheduling
- Best practice deployment wizards
- Direct Pass Caching Technology
- DAS and SAN DB volume acceleration

The ZD-XL SQL Accelerator is a tightly integrated, plug-n-play flash acceleration solution optimized for Microsoft SQL Server deployments. As the culmination of a tightly integrated hardware and software solution, ZD-XL provides end-to-end data path integration. Its acceleration software, driver, firmware and hardware are uniquely optimized to provide robust, streamlined performance.

The ZD-XL addresses SQL Server database applications to ensure that the data is right, relevant, and readily available on SSD flash when SQL Server needs it. Plugging seamlessly into existing or new SQL Server installations, it provides on-host application-optimized flash caching for SAN or DAS DB volumes, enabling data to be accessed with the highest possible I/O performance.

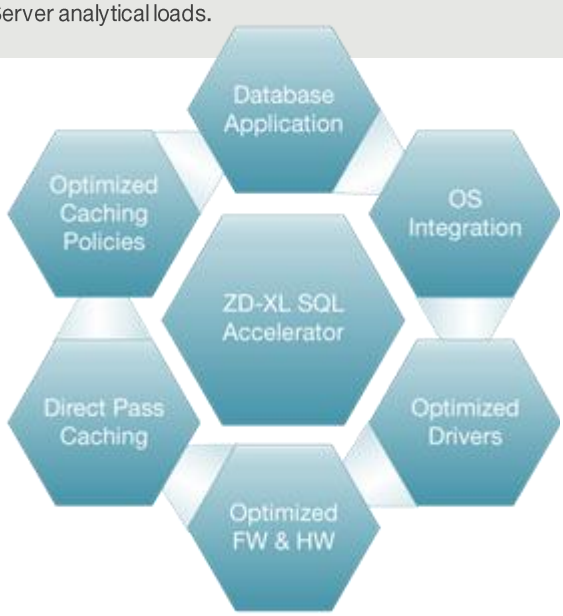
Featuring step-by-step implementation wizards, the ZD-XL guides DBAs so they can optimally benefit from the flash resources provided by the acceleration card.

One click creation of all flash volumes allows ultra-low latency access to tempDB and columnar indexes. While at the same time, OCZ's Direct Pass Caching Technology offers optimized acceleration caching policies for DAS and SAN volumes running analysis or transactional SQL Server loads.

The ZD-XL SQL Accelerator further provides a unique cache warm-up and analysis mechanism that enables monitoring and preloading of scheduled data into the cache making sure the right data is available at the right time to SQL Server analytical loads.

- A disconnected acceleration stack affects performance and endurance

- Database performance, flash latency, and endurance optimized through tight integration



OCZ enterprise

XL Storage Accelerator Series

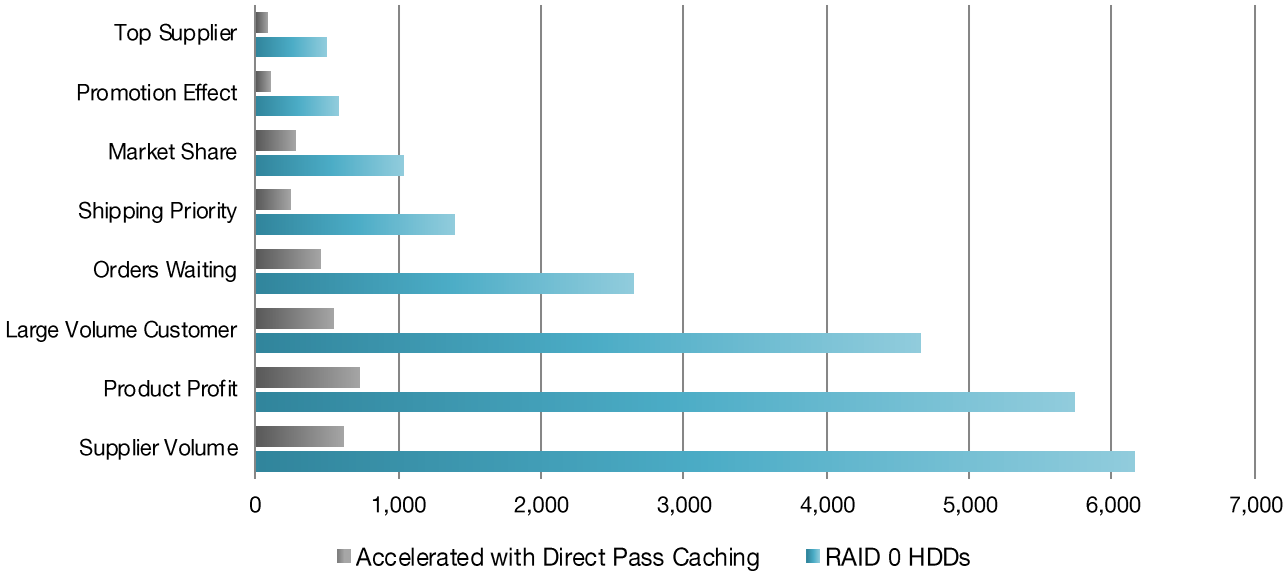
OCZ ZD-XL SQL Accelerator

Integrated Flash Hardware & Software Solution for SQL Server

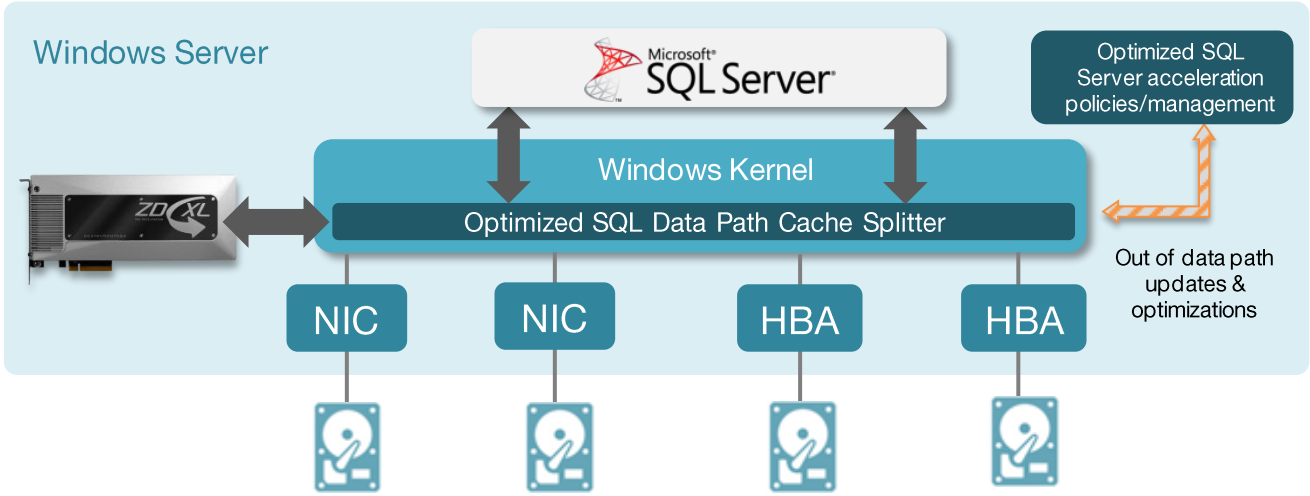
Optimized SQL Acceleration The ZD-XL SQL Accelerator provides optimized application-aware caching policies for SQL Server OLAP and OLTP loads. Optimized policies ensure the highest benefit from flash resources by closely monitoring the application data access DNA.

Data Warehouse Query Completion Times

Increase SQL Server Query Performance by up to **25x**



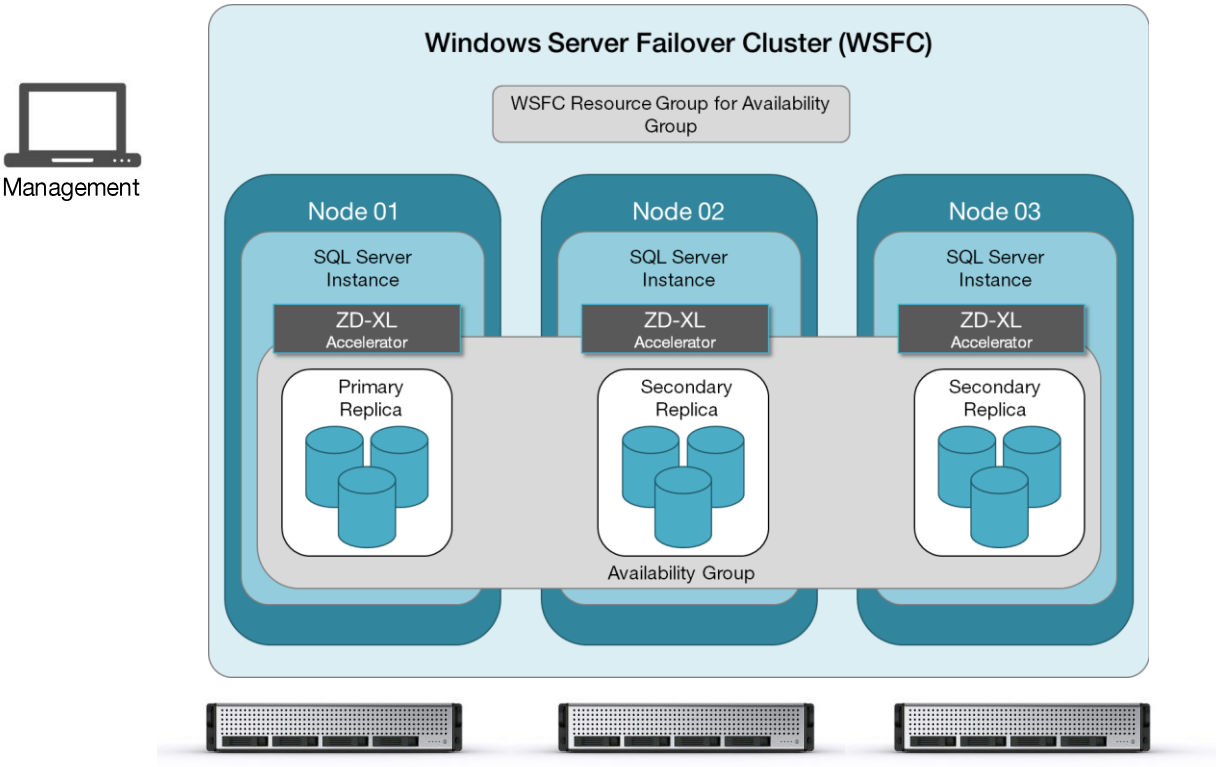
OCZ 'Direct Pass Caching' Technology The ZD-XL SQL Accelerator's tight hardware and software integration allows its advanced application-optimized caching engine to run in tangent with streamlined flash drivers. The unique acceleration architecture is powered by OCZ's Direct Pass Caching Technology offering optimized hit ratios with ultra-low latency access to flash.



OCZ ZD-XL SQL Accelerator

Integrated Flash Hardware & Software Solution for SQL Server

Plug-n-Play into Existing SQL Deployments The ZD-XL SQL Accelerator seamlessly accelerates existing SQL deployment by caching the hot data from existing DAS and SAN DB volumes on accelerated flash resources. Acceleration card resources are seamlessly divided between a flash caching pool and on-host flash volumes.



SQL Acceleration Deployment Wizards Implementations wizards guide the DBA through best practice deployment of flash for SQL acceleration, enabling quick set-up and optimized acceleration of existing deployments.

Capacities & Form Factors

- HH PCIe 300 GB
- HH PCIe 600 GB
- FH PCIe 800 GB
- FH PCIe 1.6 TB

Supported Operating Systems

- Windows 2008 R2
- Windows 2012

Supported Application Versions

- Microsoft SQL Server 2012
- Microsoft SQL Server 2008

OCZ enterprise

XL Storage Accelerator Series

OCZ ZD-XL SQL Accelerator

Integrated Flash Hardware & Software Solution for SQL Server

Specifications

PHYSICAL	ZD-XL Half Height	ZD-XL Full Height
Usable Capacities (IDEMA)	300GB, 600GB	800GB, 1.6TB
NAND Components	Multi-Level Cell (MLC)	Multi-Level Cell (MLC)
Interface	PCI Express Gen. 2 x8	PCI Express Gen. 2 x8
Form Factor	PCIe half height, half length compliant	PCIe full height, ¾ length compliant
ENVIRONMENTAL		
Power Consumption	Idle: 14.5 W Active: 16 W	Idle: 23 W Active: 26 W
Operating Temperature	0°C ~ 70°C	0°C ~ 70°C
Storage Temperature	-45°C ~ 85°C	-45°C ~ 85°C
Airflow Requirement	100 Linear Feet/Minute (LFM)	100 Linear Feet/Minute (LFM)
Certifications	RoHS, CE, FCC	RoHS, CE, FCC
RELIABILITY/SECURITY		
Data Fail Recovery	Recovers data from up to one NAND flash block per NAND controller	
Power Fail Protection	DataWrite Assurance™ Technology (capacitance power back-up to ensure data hardening)	
Data Path Protection	ECC: Up to 55 bits correctable per 512-byte sector; Data path parity protection	
Data Reliability	Read Unrecoverable Bit Error Rate (UBER) 10e-17	
Data Encryption	128-bit AES-compliant	
Product Health Monitoring	SMART support w/ enterprise attributes	
COMPATIBILITY		
PCI Express	PCI Express x8 or x16 slot; Fully compliant with the PCI Express Electromechanical Specification Rev. 2.0, and PCI Express Base Specification Rev. 2.0	
Power Requirements	PCI Express 12V & 3.3V	

ORDERING	
300GB Half Height	ZDXLSQL-HH-300G
600GB Half Height	ZDXLSQL-HH-600G
800GB Full Height	ZDXLSQL-FH-800G
1.6TB Full Height	ZDXLSQL-FH-1.6T

XL Storage Accelerator Series

OCZ enterprise

© 2013 OCZ Technology Group, Inc. All rights reserved. OCZ may make changes to specifications and product descriptions at any time, without notice.